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	Application No.	Applicant(s)
		YAOUGUU ET AL
Notice of Allowability	10/777,103 Examiner	YAGUCHI ET AL.
•		
	Binh C. Tat	2825
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this a 5) or other appropriate communicati RIGHTS. This application is subjec	application. If not included ion will be mailed in due course. THIS
1. \square This communication is responsive to $\underline{11/17/06}$.		
2. The allowed claim(s) is/are <u>1-16</u> .		
 3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Informa	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa Paper No./Mail 〔	
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amer	ndment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State	ment of Reasons for Allowance
or biological material	9.	
•	SUPE	JACK CHIANG RVISORY FAIENT EXAMINER

Application/Control Number: 10/777,103

Art Unit: 2825

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-16 are allowed because the prior art does not teach or suggest a device for estimating the number of board layers constituting a board, which is connected to at least one file for storing information about an order of layers to be added, positional information of a component pin, a board pin, a power-source pin, and a ground pin, connection information between a component pin and a board pin, connection information between a power-source pin or a ground pin and a predetermined layer, information about existing wirings, information about an area where wiring is prohibited, and information about a shape of a via, a storage and an output device to which a wired result is output, comprising: a via forming section for retrieving from the file positional information of a component pin, a board pin, a power-source pin, and a ground pin, and connection information between a component pin and a board pin to store the information in the storage, and retrieving from the file the connection information from a powersource pin or ground pin to a predetermined layer and the information about a shape of a via to form a via and to store the information and information about the formed via with its shape in the storage; a wiring prohibited area forming section for retrieving from the file the information about existing wirings and the information about an area where wiring is prohibited to store the information in the storage; and a wiring route searching section for searching for a wiring route in reference to the information stored in the storage to output to the output device a structure of a present board and the number of layers constituting the present board and combination of all other features corresponding to the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is 571 272-1908. The

examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh

Patent Examiner

December 8, 2006

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